

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) SDG MF4Q23 Case 41345 Contract EPW09038 Region 6 DDTID 123304 SOW ISM01.2

Data Review Reports

Blanks

| Blanks | ICP_MS |
|---------------|--|
| ND05 | The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes. |
| | LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22S, MF4Q22L, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 |
| | Vanadium LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22S, MF4Q22L, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 |
| | Arsenic LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22S, MF4Q22L, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 |
| | Calcium LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22L, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29 |
| | Chromium LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22S, MF4Q22L, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 |
| | Nickel LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22S, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 |
| | Potassium LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22L, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29 |
| | Copper LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22S, MF4Q20, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 |
| | Lead LCS, MF4Q19, MF4Q60, MF4Q17, MF4Q22S, MF4Q20, MF4Q24, MF4Q29, MF4Q13 |
| | Sodium LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22L, MF4Q20, MF4Q24, MF4Q25 |
| | Barium LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22S, MF4Q22L, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 |
| | Cobalt LCS, MF4Q22S |
| | Zinc LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22S, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 |
| | Aluminum LCS, MF4Q17 |
| | Beryllium LCS, MF4Q22S |
| | Antimony LCS, MF4Q22S |
| | Thallium LCS, MF4Q22S |
| | Cadmium LCS, MF4Q22S |
| | Magnesium LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22L, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29 |
| | Silver LCS, MF4Q22S |
| | Manganese LCS, MF4Q26, MF4Q27, MF4Q17, MF4Q22S, MF4Q20, MF4Q21, MF4Q58 |
| | Iron LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q60, MF4Q17, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 |

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Data Review Reports

Blanks

| Blanks | ICP_MS |
|--------|---|
| Blanks | ICP_MS |
| NCB06 | <p>The following samples have no detected analytes. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.</p> <p>PBW, MF4Q58, MF4Q59, MF4Q13, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22L, MF4Q21, MF4Q24, MF4Q25, MF4Q29</p> |
| | Vanadium PBW |
| | Aluminum MF4Q58 , MF4Q59 |
| | Beryllium MF4Q13 , MF4Q58 , MF4Q59 |
| | Cadmium PBW, MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22L , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| Blanks | ICP_MS |
| ND03 | <p>The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.</p> <p>MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22L, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59</p> <p>Cobalt MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22L , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59</p> <p>Zinc MF4Q22L</p> <p>Nickel MF4Q22L</p> <p>Aluminum MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q60 , MF4Q22D , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q29</p> <p>Antimony MF4Q20 , MF4Q13</p> <p>Cadmium MF4Q20</p> <p>Thallium MF4Q22L</p> <p>Copper MF4Q27 , MF4Q22 , MF4Q22D , MF4Q22L , MF4Q21</p> <p>Silver MF4Q20 , MF4Q13</p> <p>Iron MF4Q31 , MF4Q22 , MF4Q22D , MF4Q22L</p> <p>Manganese MF4Q23 , MF4Q19 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q22 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q59</p> <p>Lead MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q22 , MF4Q21 , MF4Q25 , MF4Q58 , MF4Q59</p> |
| Blanks | ICP_MS |
| ND15 | <p>The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.</p> <p>MF4Q21, MF4Q29, MF4Q13, MF4Q58, MF4Q59</p> |

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Data Review Reports

Blanks

| Blanks | ICP_MS |
|--------|--|
| | Sodium MF4Q21 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Calcium MF4Q13 , MF4Q58 , MF4Q59 |
| | Aluminum MF4Q13 |
| | Magnesium MF4Q13 , MF4Q58 , MF4Q59 |
| Blanks | ICP_MS |
| NCB05 | The following samples have no detected analytes. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes. |
| | MF4Q58, MF4Q59 |
| | Aluminum MF4Q58 , MF4Q59 |
| Blanks | ICP_MS |
| ND06 | The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes. |
| | LCS, MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22L, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59, MF4Q22S |
| | Calcium LCS , MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22L , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Chromium LCS , MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22S , MF4Q22L , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Nickel LCS , MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22S , MF4Q22L , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Potassium LCS , MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22L , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Copper LCS , MF4Q23 , MF4Q19 , MF4Q26 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22S , MF4Q20 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Lead LCS , MF4Q19 , MF4Q60 , MF4Q17 , MF4Q22S , MF4Q20 , MF4Q24 , MF4Q29 , MF4Q13 |
| | Sodium LCS , MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22L , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Barium LCS , MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22S , MF4Q22L , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Cobalt LCS , MF4Q22S |
| | Zinc LCS , MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22S , MF4Q22L , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Aluminum LCS , MF4Q17 |
| | Beryllium LCS , MF4Q22S |
| | Antimony LCS , MF4Q22S |

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Data Review Reports

Blanks

| Blanks | ICP_MS |
|--------|--|
| | Thallium LCS , MF4Q22S |
| | Cadmium LCS , MF4Q22S |
| | Magnesium LCS , MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22L , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Silver LCS , MF4Q22S |
| | Iron LCS , MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q60 , MF4Q17 , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Manganese LCS , MF4Q26 , MF4Q27 , MF4Q17 , MF4Q22S , MF4Q20 , MF4Q21 , MF4Q58 |
| Blanks | ICP_MS |
| ND04 | The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs. |
| | MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q22D, MF4Q22L, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 |
| | Cobalt MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22L , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 |
| | Zinc MF4Q22L |
| | Nickel MF4Q22L |
| | Aluminum MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q60 , MF4Q22D , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q29 , MF4Q13 |
| | Antimony MF4Q20 , MF4Q13 |
| | Cadmium MF4Q20 |
| | Thallium MF4Q22L |
| | Copper MF4Q27 , MF4Q22 , MF4Q22D , MF4Q22L , MF4Q21 |
| | Silver MF4Q20 , MF4Q13 |
| | Iron MF4Q31 , MF4Q22 , MF4Q22D , MF4Q22L |
| | Manganese MF4Q23 , MF4Q19 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q22 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q59 |
| | Lead MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q22 , MF4Q21 , MF4Q25 , MF4Q58 , MF4Q59 |

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Data Review Reports

Detection Limit

| Detection Limit | ICP_MS |
|-----------------|---|
| NDL1 | The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J. MF4Q22L, MF4Q27, MF4Q22, MF4Q22D, MF4Q21, MF4Q23, MF4Q26, MF4Q28, MF4Q30, MF4Q31, MF4Q25, MF4Q58, MF4Q59, MF4Q19, MF4Q60, MF4Q17, MF4Q20, MF4Q24, MF4Q29, MF4Q13 Nickel MF4Q22L Copper MF4Q27 , MF4Q22 , MF4Q22D , MF4Q22L , MF4Q21 Lead MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q22 , MF4Q21 , MF4Q25 , MF4Q58 , MF4Q59 Selenium MF4Q22L Cobalt MF4Q23 , MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q17 , MF4Q22 , MF4Q22D , MF4Q22L , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q58 , MF4Q59 Aluminum MF4Q19 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q60 , MF4Q22D , MF4Q20 , MF4Q21 , MF4Q24 , MF4Q29 , MF4Q13 Zinc MF4Q22L Antimony MF4Q20 , MF4Q13 Thallium MF4Q22L Cadmium MF4Q20 Manganese MF4Q23 , MF4Q19 , MF4Q28 , MF4Q30 , MF4Q31 , MF4Q60 , MF4Q22 , MF4Q24 , MF4Q25 , MF4Q29 , MF4Q13 , MF4Q59 Iron MF4Q31 , MF4Q22 , MF4Q22D , MF4Q22L Silver MF4Q20 , MF4Q13 |

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Data Review Reports

Duplicates

| Duplicates | ICP_MS |
|------------|--|
| NI04 | The following Duplicate or original sample results are less than or equal to 5xCRQL and the absolute difference between duplicate and original samples are greater than CRQL. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ. MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 |
| | Zinc MF4Q22D |

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Data Review Reports

Serial Dilution

| Serial Dilution | ICP_MS |
|-----------------|---|
| NL032 | The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ. MF4Q23, MF4Q19, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q17, MF4Q22, MF4Q20, MF4Q21, MF4Q24, MF4Q25, MF4Q29, MF4Q13, MF4Q58, MF4Q59 Arsenic MF4Q22L |